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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,838	02/18/2004	Floyd Backes	160-040	3757
34845 7590 06/27/2007 McGUINNESS & MANARAS LLP 125 NAGOG PARK			EXAMINER	
			NGO, NGUYEN HOANG	
ACTON, MA 01720	01720	•	ART UNIT	PAPER NUMBER
	•		2616	
			MAIL DATE	DELIVERY MODE
			06/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		S. S				
	Application No.	Applicant(s)				
	10/780,838	BACKES, FLOYD				
Office Action Summary	Examiner	Art Unit				
	Nguyen Ngo	2616				
The MAILING DATE of this communication ap	pears on the cover sheet	with the correspondence address				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may will apply and will expire SIX (6) M e, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 F	ebruary 2004.					
· <u> </u>	s action is non-final.	•				
3) Since this application is in condition for allowa		atters, prosecution as to the merits is				
closed in accordance with the practice under						
Disposition of Claims						
4) ⊠ Claim(s) <u>1-3</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in ority documents have been au (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application				

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

- a) On page 3 line 15, replace "Figure 8" with --Figures 8A and 8B-- in order to match drawings;
- b) On page 4 line 17, replace "Figure 18" with --Figures 18A and 18B-- in order to match drawings;
- c) On page 6 line 3, replace "Figure 33" with --Figures 33A and 33B-- in order to match drawings;
- d) On page 23 line 1, replace "Figure 8" with --Figures 8A and 8B-- after "to" in order to match drawings;
- e) On page 34 line 6, replace "Figure 18" with --Figures 18A and 18B-- after "in" in order to match drawings.

Appropriate correction is required.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140

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F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-3 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-3 of copending Application No. 10/780,840 (apparatus) and Application No. 10/780,843 (method). Although the conflicting claims are not identical, they are not patentably distinct from each other because the computer program would have been obvious to implement by an apparatus to perform the method.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

4. Claims 1-3 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1-3 of copending Application No. 10/780,798. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-3 of Application No. 10/780,798, is simply the protocol of the method implemented by the computer program.

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kallio (U.S. 2004/0014422 A1) in view of Eng (U.S. 2003/0035442 A1), hereinafter referred to as Kallio and Eng.

Regarding claim 1, Kallio discloses a method/program for handovers implemented in a Bluetooth environment, which defines a short-range radio network (paragraphs 4 and 13). Kallio further discloses a method that enables terminal devices to efficiently transition from a first access point to a second access-point based on service discovery

information that is transmitted by the second access point. The current access point establishes a link with the terminal device; sends service description data to the terminal device; and authenticates the link with the second access point using a group key based on the service description data (wherein multiple channels are available for communication, paragraphs 13 and 15), comprising:

a terminal device 402 enters a page scan state, where it awaits one or more paging messages. An access point 406 also enters a paging mode and transmits one or more paging packets. These paging packets each include an identification number based on the address of terminal device. Meanwhile, during this step, the terminal device, which is in page scan mode, responds to the paging packets by transmitting a packet that includes its address, (sending Announce message to other devices to indicate the access point's presence and its protocol capability to the other devices and receiving Bid messages from other devices, wherein a device sends a Bid message to the access point to indicate that the device desires to communicate in the wireless communications environment via the access point, figures 8 and 10, paragraphs 134-135).

an access point receives this packet from terminal device. In response, access point transmits a frequency hop synchronization (FHS) packet. The FHS packet is used to pass information that allows terminal device to synchronize with the frequency

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hopping sequence of access point. Upon receipt of this FHS packet, terminal device transmits a further packet to confirm receipt of the FHS packet. Both terminal device and access point enter into the connection state at this point, (sending an Accept message to a device in response to a Bid message to indicate that the access point will allow the device to communicate in the wireless communications environment via the access point, figures 8 and 10, paragraphs 134-135).

Kallio however fails specifically disclose an exchange of messages prior to the packets sent during the page scan, correlating to claim messages. Eng however discloses a method for enabling full service communication between a full-service cable modem (fsCM) termination system and a plurality of full-service cable modem, wherein full-service communications include data, voice and video. A multi-channel full-service media-access-control (fsMAC) coordinates the access to the shared upstream and downstream channels, (devices in a wireless communications environment wherein multiple channels are available for communication, abstract). Eng further discloses a message 700 being sent that identifies an upstream channel (sending claim messages to other devices and receiving claim messages from other devices, and using the claim messages it sends and receives to select a channel on which to communicate, paragraph 67). It would have thus been obvious to a person of ordinary skill in the art at the time the invention was made to provide a message that identifies a

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channel as taught by Eng into the method of Kallio in order to make handovers more efficient (paragraph 14).

8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kallio (U.S. 2004/0014422 A1) in view of Eng (U.S. 2003/0035442 A1), in further view of Idnani et al. (U.S. 200410121765 A1), hereinafter referred to as Kallio, Eng, and Idnani.

Regarding claim 2, the combination of Kallio and Eng clearly discloses the claimed invention except that a registration request message and its acknowledgement are transmitted. Idnani however discloses a Session Initiation Protocol (SIP) proxy user agent (UA) to serve as a gateway between a SIP core network and a SIP-unaware mobile. A new message is described, a combined registration and event subscription message, which is used by SIP proxy UAs to both register a new contact address for a mobile and to subscribe to the mobile's contact information. When mobile station (MS) 101 begins obtaining service from base station (BS) 111 it sends a registration request message to SIP component 120. This registration request message 202 is not a SIP message, but rather a registration message in accordance with the wireless protocol utilized by MS. The registration request message is received by SIP proxy UA 123, via the wireless network interface 121. Acting as a proxy user agent for the mobile station, SIP proxy UA then sends a combined registration and event subscription message for MS 101 to SIP registrar/presence server 130 (access point). Proxy UAs are responsible for translating the call control messaging between SIP and the appropriate

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wireless protocol, (receiving registration request messages from devices, wherein a device sends a registration request message to the access point to indicate that the sending device desires to communicate in the wireless communications environment via the receiving device using the Dynamic Radio Control Protocol, figures 1 and 2, paragraphs 8, 14-15);

In response to the message, SIP registrar sends SIP OK message to SIP proxy UA, (sending registration acknowledge messages to devices, wherein the access point sends a Registration acknowledge message to device in response to a Registration Request message, to indicate that the access point understands that the device will communicate in the wireless communications environment using the Dynamic Radio Control Protocol," (figures 1 and 2, paragraph 30).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to register, via a proxy, to a server as taught by Idnani et al. in the method of Kallio, as modified by Eng, in order to efficiently complete a transition or handover.

9. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kallio (U.S. 2004/0014422 A1) in view of Eng (U.S. 2003/035442 A1), in further view of Feder et al. (U.S. 6,522,881 B1), hereafter referred to as Kallio, Eng, and Feder.

Regarding claim 3, the combination of Kallio and Eng fails to disclose choosing the

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access point that will provide better wireless communications performance than the current access point.

Feder however discloses a method for use in a wireless communications network that searches for the best serving access point of a base station as a function of communication quality. Each base station 200 includes five access points (AP) that are assigned a different 1MHz channel, (devices in a wireless communications environment wherein multiple channels are available for communication, abstract, column 4 lines 6-11). A wireless modem 270 in a fixed wireless network executes an AP search/selection sequence in response to a triggering event, such as when service quality degrades below a threshold level. After detecting beacons and obtaining a communication link quality metric for each neighboring access point, the wireless modem selects the best access point based on the communication link quality metric (Bid message is sent by a device to the access point if the device ascertains that the access point is likely to provide better wireless communications performance than another access point through which the device is currently communicating, column 2 lines 59-63, column 3 lines 6-10).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to select an access point with the best communication link quality as taught by Feder into the method of Kallio, as modified by Eng, in order to efficiently complete a transition or handover.

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Walker (US 2005/0032506), Authenticated Key Exchange Based On Pairwise Master Key.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Ngo whose telephone number is (571) 272-8398. The examiner can normally be reached on Monday-Friday 7am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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SUPERVISORY PATENT EXAMINER